

IN THE CLAIMS

The status of the claims as presently amended is as follows:

1. (Original) A hydraulic control apparatus for a V-belt type continuously variable transmission in which a primary pressure is applied on the primary pulley connected to an engine side and a secondary pressure is applied on the secondary pulley connected to an output shaft, comprising:

an oil pump connected to the engine, for generating a basic pressure for a line pressure as a basic pressure for the primary pressure and the secondary pressure;

a hydraulic control section that controls the line pressure and the secondary pressure;

range detecting means for detecting a range selected by an operator; and

engine speed detecting means for detecting a revolution speed of the engine; and

wherein said hydraulic control section is operable during a predetermined period of time after said range detecting means detects a change from a driving range to a non-driving range or a change from the non-driving range to the driving range, or when the non-driving range is detected, for calculating a value of the line pressure according to oil amount balance of said oil pump relative to the engine speed and controlling the line pressure according to the calculated value of the line pressure.

2. (Original) A hydraulic control apparatus for a V-belt type continuously variable transmission according to claim 1, comprising:

an oil temperature sensor that detects a temperature of oil in the V-belt type continuously variable transmission; and

wherein said hydraulic control section is operable when calculating the value of the line pressure according to the oil amount balance of said oil pump, for calculating the value of the line pressure according to the temperature detected by said oil temperature sensor.

3. (Currently Amended) A hydraulic control apparatus for a V-belt type continuously variable transmission according to claim 1 or 2-A hydraulic control apparatus for a V-belt type continuously variable transmission in which a primary pressure is applied on the primary pulley connected to an engine side and a secondary pressure is applied on the secondary pulley connected to an output shaft, comprising:

an oil pump connected to the engine, for generating a basic pressure for a line pressure as a basic pressure for the primary pressure and the secondary pressure;

a hydraulic control section that controls the line pressure and the secondary pressure;
range detecting means for detecting a range selected by an operator; and
engine speed detecting means for detecting a revolution speed of the engine; and
wherein said hydraulic control section is operable during a predetermined period of time after
said range detecting means detects a change from a driving range to a non-driving range or a
change from the non-driving range to the driving range, or when the non-driving range is
detected, for calculating a value of the line pressure according to oil amount balance of said oil
pump relative to the engine speed and controlling the line pressure according to the calculated
value of the line pressure,

wherein said hydraulic control section is operable when controlling the line pressure according to the oil amount balance of said oil pump, for further multiplying a value of the secondary pressure to be specified in a case where said range detecting means has not detected a change from the driving range to the non-driving range or a change from the non-driving range to the driving range, or in a case said range detecting means has not detected the non-driving range, by a ratio of the line pressure according to the oil amount balance of said oil pump to a line pressure-intended-to-be specified in the case where said range detecting means has not detected the change from the driving range to the non-driving range or the change from the non-driving range to the driving range, or in the case said range detecting means has not detected the non-driving range, and controlling the secondary pressure according to the calculated value of the secondary pressure.

4. (New) A hydraulic control apparatus for a V-belt type continuously variable transmission in which a primary pressure is applied on the primary pulley connected to an engine side and a secondary pressure is applied on the secondary pulley connected to an output shaft, comprising:

an oil pump connected to the engine, for generating a basic pressure for a line pressure as a basic pressure for the primary pressure and the secondary pressure;
a hydraulic control section that controls the line pressure and the secondary pressure;
range detecting means for detecting a range selected by an operator; and
engine speed detecting means for detecting a revolution speed of the engine; and
wherein said hydraulic control section is operable during a predetermined period of time after
said range detecting means detects a change from a driving range to a non-driving range or a

change from the non-driving range to the driving range, or when the non-driving range is detected, for calculating a value of the line pressure according to oil amount balance of said oil pump relative to the engine speed and controlling the line pressure according to the calculated value of the line pressure, further comprising,

an oil temperature sensor that detects a temperature of oil in the V-belt type continuously variable transmission; and,

wherein said hydraulic control section is operable when calculating the value of the line pressure according to the oil amount balance of said oil pump, for calculating the value of the line pressure according to the temperature detected by said oil temperature sensor,

wherein said hydraulic control section is operable when controlling the line pressure according to the oil amount balance of said oil pump, for further multiplying a value of the secondary pressure to be specified in a case where said range detecting means has not detected a change from the driving range to the non-driving range or a change from the non-driving range to the driving range, or in a case said range detecting means has not detected the non-driving range, by a ratio of the line pressure according to the oil amount balance of said oil pump to a line pressure intended to be specified in the case where said range detecting means has not detected the change from the driving range to the non-driving range or the change from the non-driving range to the driving range, or in the case said range detecting means has not detected the non-driving range, and controlling the secondary pressure according to the calculated value of the secondary pressure.